



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY



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No. 31] NEW DELHI, SATURDAY, AUGUST 5, 1989 (SRAVANA 14, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
Separate paging is given to this Part in order that it may be filed as a separate compilation

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 5th August 1989

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New Delhi-110 005.

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Telegraphic address "PATENTOFIC".

1—187 GI/89

Patent Office Branch,  
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Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Rest of India

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

*Fees* :— The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय  
एकसूत्र तथा अभिकल्प

कलकत्ता, दिनांक 5 अगस्त 1989

पेटेंट कार्यालय के कार्यालयों को पत्र एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोर्जी इस्टेट  
तीसरा तल, लोअर परले (पश्चिम),  
बम्बई-400 013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र  
एवं संघ शासित क्षेत्र गोआ, दामन तथा दिव  
एवं दादरा और नगर हवेली ।

तार पता-“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, अरुण तथा  
कश्मीर, पंजाब, राजस्थान तथा  
उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र  
चंडीगढ़ तथा दिल्ली ।

तार पता-“पेटेंटोफिस” ।

पेटेंट कार्यालय शाखा,  
61. बालासाह रोड,  
मद्रास-600 002.

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र  
एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,  
मिनिकाय तथा एमिनिदिब द्वीप ।

तार पता-“पेटेंटोफिस” ।

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन,  
5, 6 तथा 7 वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020.

भारत का अवशेष क्षेत्र ।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में  
अपेक्षित सभी आवेदन पत्र, सुचनाएँ, विवरण या अन्य  
प्रत्येक पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त  
किए जायेंगे ।

शुल्क :—शुल्कों की अवायगी या तो नकद की जायगी अथवा  
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा  
ड्राफ्ट आदेश या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान  
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट  
अथवा चेक द्वारा की जा सकती है ।

#### CORRIGENDUM

In the Gazette of India, Part-III, Sec. 2 dated the 27th May, 1989 under the heading “PATENTS SEALED” delete No. 163294.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 29th June 1989

506/Cal/89. Trutzschler GmbH & Co., Kg. An equipment at a carding machine, cleaning machine or any similar machine for cotton fibres.

507/Cal/89. Trutzschler GmbH & Co., Kg. The device for the opening and cleaning of fibre material flow in particular cotton.

The 30th June 1989

508/Cal/89. Hoover Universal, Inc. Blow molded bottle with improved self supporting base.

509/Cal/89. Thyssen Stahl Ag. Method of producing a steel strip having a thickness of less than 10 mm.

510/Cal/89. Hitachi Construction Machinery Co., Ltd. Apparatus for controlling rotational speed of prime mover of construction machine.

511/Cal/89. First Tech.. Process and means for the manufacture of zip fasteners.

512/Cal/89. The Babcock & Wilco Company. Parameter estimation technique for closed loop system.

513/Cal/89. Pencell Company Ltd., lead-replaceable writing implementation with multiple lead channels.

The 3rd July 1989

514/Cal/89. Dr. Amallesh Kumar Sirkar. Improvements in or relating to manufacture of Ethanol from Glucose.

515/Cal/89. Du Pont Canada Inc. Heat Sealing device for thermoplastic films.  
(Convention dated 14-12-1988 (U. K.). (8829196).

516/Cal/89. Kone Elevator GmbH. Rectifier bridge unit.

517/Cal/89. Kone Elevator GmbH. Procedure for the selection of a bridge or bridge section in a rectifier bridge unit, and a bridge selector unit designed for implementing the procedure.

518/Cal/89. Kone Elevator GmbH. Procedure for the control of frequency converter and rectifier/inverter bridges, and a modulator unit designed for implementing the procedure.

519/Cal/89. Kone Elevator GmbH. Device for over-voltage protection of a rectifier bridge feeding a D. C. motor and for control of the D. C. motor during emergency braking.

520/Cal/89. Shama Pada Roy. Production of basic refractory bricks from used refractories.

The 4th July 1989

521/Cal/89. Hoesch Maschinenfabrik Deutschland Ag. Underfloor wheel-set turning machine for reprofiling the wheel tyre contours of railway wheel sets.

522/Cal/89. Ethicon, Inc. Improved safety trocar. (Convention dated 6th July, 1988) Great Britain. (8816055.8).

523/Cal/89. Hong Kong Disc-lock Company Limited. Locking device for threaded fastener.

524/Cal/89. Stefan Karp. and Stuart Clyde Burgess. One way clutch. (Convention dated 5th July, 1988) (U.K.). (8815929).

The 5th July 1989

525/Cal/89. Sico Incorporated. Interlocking sections for portable floors and the like.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, THIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13.

The 12th June 1989

156/Bom/89. Hindustan Lever Ltd. Liquid Detergents. 15th June 88, Gr. Britain.

157/Bom/89. Kabelschlepp GmbH. Carrier for energy lines and other supply lines.

158/Bom/89. Nirmal Pannalal. Non-conventional energy release and storage system.

159/Bom/89. Anand Govind Bhole. Static Flocculator (SF 2).

The 13th June 1989

160/Bom/89. Sanjaykumar Kantilal Amin. Energy Converter.

The 14th June 1989

161/Bom/89. Anand Govind Bhole. Modified square tube and modified regular hexagonal tube.

The 15th June 1989

162/Bom/89. Crompton Greaves Ltd. A process for the manufacture of a high performance air-drying polyurethane paint for coating metal or metal alloy.

163/Bom/89. Hoechst India Ltd. A process for the production of new antifungal antibiotic Macclafungin from an actinomycete culture Y-85, 21050 (Culture number Hoechst India Limited Y-85, 21050) and its mutants and variants.

164/Bom/89. Hindustan Lever Ltd. Shampoo Composition. 16th June, 88, Gr. Britain.

165/Bom/89. Subhanjan Mohanty. An improved process for producing high purity sponge iron.

166/Bom/89. Dr. Madhavrao Anantrao Data & N. G. Mishra. An improved overcurrent relay.

The 16th June 1989

167/Bom/89. Nirmal Pannalal. Locking and temper proofing of water taps for public hydrants.

168/Bom/89. Navin Dayalal Vadalia. Self shock absorbing seats beds and platforms which may be used for automobiles, aeroplanes, trains, motor-cycles, bicycles, vans, trucks, buses, ambulances and similar transporting systems.

169/Bom/89. KSB Pumps Ltd. An improved seal in ball valve.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 19th June 1989

475/Mas/89. Audco India Limited. Improvements in or relating to lubricated taper plug valve.

476/Mas/89. The Charles Stark Draper Laboratory Inc. Method and apparatus for detecting improper stitches for chainstitch sewing machine.

477/Mas/89. Concord Research Corporation. Non-metallic, monoatomic forms of transition elements.

478/Mas/89. Union Carbide Corporation. A process for making polymeric products of high tensile strength.

The 20th June 1989

479/Mas/89. K. A. Ranghachary. Wind energy to rural electric supply.

480/Mas/89. A. F. Mathew. Shoe insert for arch support.

481/Mas/89. Maschinenfabrik Rieter AG. Feed stop motion.

482/Mas/89. Maschinenfabrik Rieter. A textile machine with drawframes.

483/Mas/89. Maschinenfabrik Rieter AG. Drawframe with pressure rod.

484/Mas/89. Institut De Recherches De La Siderurgie Francaise (IRSID). Method and apparatus for the continuous casting of thin metal products.

485/Mas/89. ASEA Brown Boveri Ltd. Device for extending the performance of a radial compressor.

The 21st June 1989

486/Mas/89. Uniroyal Englebert Textilcord S. A. Method of producing a patterned, flocked flat-shaped textile structure.

487/Mas/89. Ole-Bendt Rasmussen. Method and apparatus for helical cutting of lay-flat flexible tubular sheet of polymer material.

(June 24, 1988; United Kingdom).

488/Mas/89. Fisher Controls International, Inc. Drain through ball valve.

489/Mas/89. Ammonia Casale S. A. and Umberto Zardi. process and reactor for exothermic heterogeneous synthesis with several catalytic beds and with the external recovery of reaction heat.

The 22nd June 1989

490/Mas/89. Lankalapalli Gopala Rao. Variable wattage electric lamps.

491/Mas/89. Hoya Corporation. Process for producing cyanopsia-correctable intraocular lens.

492/Mas/89. Minelli AG. A process and device for centering a guide mandrel.

(November 22, 1988; Australia).

## The 23rd June 1989

493/Mas/89. Maschinenfabrik Rieter AG. A method of heating in textile machines.

## ALTERATION

165030 Anti-dated to 23rd July, 1984.  
(800/Cal/86).  
165038. Anti-dated to 9th February, 1984.  
(1060/Del/86).  
165039 Anti-dated to 9th February, 1984.  
(1076/Del/86).  
165040 Anti-dated to 24th January, 1984.  
(1076/Del/86).  
165048 Anti-dated to 29th August, 1983.  
(604/Cal/87).  
165049 Anti-dated to 3rd October, 1985.  
(903/Cal/87).

## OPPOSITION PROCEEDINGS

An opposition has been entered into by Hawkins Cookers Ltd., Bombay to the grant of a patent on application No. 164065 made by M/s. Expo Gas Containers Pvt. Ltd., Bombay.

## AMENDMENT PROCEEDING UNDER SECTION 57 OF THE PATENTS ACT, 1970

Notice is hereby given that Stahl Holland BV, of Sluisweg 10, 5145 PE Waalwijk, the Netherlands, have made an application under Section 57 of the Patents Act, 1970, for amendment of the Application, Specification and drawings of their Patent Application No. 164718 for "A PROCESS FOR THE PREPARATION OF A COAGULATED MATERIAL." THE amendments are by way of correction. The Application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 61, Wallajah Road, Madras-600 002 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the Application for amendment may file a Notice of opposition on the prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras. If Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing of the said Notice of Opposition.

## PATENTS SEALED

157649 160393 160394 162816 162961 162962 162963  
163223 163250 163317 163318 163327 163328 163355  
163365 163450 163462 163514 163550 163552 163567  
163572 163577 163697 163737 163748 163770 163838  
163842 163939 163948 163949 163952.

CAL = 18.

MAS = 9.

DEL = 5.

BOM = 1.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Proposed amendment under Section 57 of the Patents Act, 1970 in connection with Patent application No. 163042 as advertised in the Gazette of India dated 29-19-1988 has been allowed.

## RENEWAL FEES PAID

144276 144742 145014 145441 145675 145837 146057  
146254 146467 146609 146661 146734 146974 147004  
147017 147266 147286 147370 147401 147598 148035  
148044 148225 148254 148476 148678 148734 149288  
149328 149416 149510 149734 149889 149916 150083  
150099 150110 150149 150253 150310 150531 150575  
150586 150588 151154 151195 151196 151440 151535

151622 151694 151723 151736 151814 151970 151989  
151990 162504 152621 152653 152736 152765 152819  
152888 152900 152944 153146 153321 153337 153418  
153419 153478 153565 153622 153814 153909 153933  
153999 154061 154121 154349 154436 154496 154598  
154642 154776 154777 154792 154797 154833 154834  
154836 154891 154964 155001 155066 155423 155488  
155635 155681 155696 155809 155916 155971 155999  
156019 156172 156252 156283 156497 156528 156534  
156542 156582 156624 156669 156752 156766 156921  
156964 157075 157198 157234 157310 157385 157411  
157460 157607 157660 157753 157754 157801 157823  
157871 157940 157955 158036 158156 158166 158277  
158341 158441 158595 158684 158687 158699 158816  
158817 158819 158820 159020 159040 159046 159077  
159137 159356 159421 159556 159614 159652 159705  
159831 159832 159856 159968 159994 160085 160109  
160160 160225 160277 160351 160502 160506 160560  
160569 160819 160946 160947 160950 161041 161074  
161175 161176 161202 161235 161384 161385 161418  
161422 161512 161589 161669 161678 161698 161787  
161789 161824 161871 161874 161878 161974 161975  
162040 162082 162083 162093 162126 162199 162200  
162242 162244 162252 162257 162258 162259 162268  
162291 162293 162294 162295 162296 162313 162323  
162324 162325 162327 162360 162417 162418 162447  
162449 162526 162579 162532 162633 162636 162637  
162641 162642 162650 162877 162883 163064 163196  
163230 163326 163371 163378 163473 163515 163530  
163574 163580 163595 163599 163615 163663 163708  
163732 163738 163739 163742 163791 163799 163802  
163803 163805.

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 148955 granted to Sushil Chandra Srivastava for an invention relating to "pump".

The patent ceased on the 30th June 1987 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 15-8-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 5th October 1989, under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition

should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

### स्वीकृत सम्पूर्ण विनिर्देश

एनद्द्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्णय की तिथि से 4 महीने या अग्रेज एंगी अर्द्धि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हों के भीतर कभी भी नियंत्रक, एकसद को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित व्यक्तव्य; उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियों, भारत सरकार वृक्ष डिप्टी, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जायें तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निर्मललिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या सलग्न रहनी चाहिए।

रूपांकन (चित्र आगच्छों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टिकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय में पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आगच्छों कागजों को जोड़कर उसे 4 से गुणा करके; (अर्थात् प्रत्येक पृष्ठ को लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिचालन किया जा सकता है।

CLASS : 120-C<sub>4</sub> & 140-A<sub>2</sub>.

165021

Int. Cl. : C 10 m 133/06, 133/12, 137/04.

LUBRICANT ADDITIVE FORMULATIONS FOR USE IN INTERNAL COMBUSTION ENGINES BURNING ALCOHOL OR ALCOHOL-CONTAINING FUEL AND LUBRICANT COMPOSITIONS CONTAINING SAID FORMULATION.

Applicant : BANKAMERICA CORPORATION, 555 CALIFORNIA STREET, SAN FRANCISCO, CALIFORNIA 94104, U. S. A.

Inventors : IEROY SCHIELER.

Application No. 34, Cal/86 filed January 17, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 21 Claims

A lubricant additive formulation for use in internal combustion engines burning alcohol or alcohol-containing fuels, comprising a major amount of an organic amine component selected from the group consisting of aromatic primary amine, aromatic secondary amines, aliphatic primary amine, aliphatic secondary amines, cycloaliphatic primary amines, and mixtures thereof, and a minor amount of a phosphoric acid ester.

Compl. specn. 27 pages..

Drg. Nil

CLASS :

165022

Int. Cl. : A 21 d 2/38, 8/04, A 23 j 1/105.

A PROCESS FOR PRODUCING FOODSTUFFS FORTIFIED WITH NOVEL MICROORGANISMS.

Applicant : RESEARCH AND DEVELOPMENT INSTITUTE, INC., AT MONTANA STATE UNIVERSITY, 106 MONTANA HALL, MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA 59717-002, U.S.A.

Inventors : (1) MOHAMED EID ABD EL-MEGEED, (2) DAVID CHANDLER SANDS.

Application No. 100/Cal/86 filed February 10, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 20 Claims

A process for producing fortified foodstuffs by addition thereto a novel *Lactobacillus fermentum* mutant comprising a microorganism selected from the group consisting of *Lactobacillus fermentum* 1.cx + ATCC 39910, ATCC 39911 and mixtures thereof which is capable of producing increased amounts of amino acid(s) such as lysine than the wild type microorganism thereby enhancing the protein quality of said foodstuffs. the said process comprising :

- (1) growing cells of the mutant microorganism in a culture broth,
- (2) separating the cells from the broth,
- (3) growing the cells in a medium comprising a lysine analog to the point of turbidity,
- (4) separating the cells from the turbid medium,
- (5) diluting the cells in fresh culture broth,
- (6) plating said cells onto indicator plates comprising lysine autotroph indicator bacteria and lysine assay agar media,

- (7) streaking the cells inhabiting the most populated zones of indicator bacteria,
- (8) bioassaying sample cell colonies to determine if a high lysine producer mutant *L. fermentum* micro-organism has been produced wherein if such mutant has been produced, it is isolated and grown to produce a pure culture thereof; and if such mutant has not been produced, the diluted cell broth of step (5) is subjected to steps (1) to (8) with increasing concentrations of lysine analog until a pure culture thereof is produced, and optionally

(9) freeze drying said pure culture,

- (10) treating said foodstuffs with said pure culture, preferably in freeze-dried form, or incorporating said culture into said foodstuffs at a suitable time to thereby increase the nutritive value thereof, and, if desired, incorporating an yeast into the said foodstuffs along with said novel microorganisms.

Compl. specn. 52 pages.

Drgs. 4 sheets

CLASS : 63-1.

165023

Int. Cl. : H 02 p 5/00..

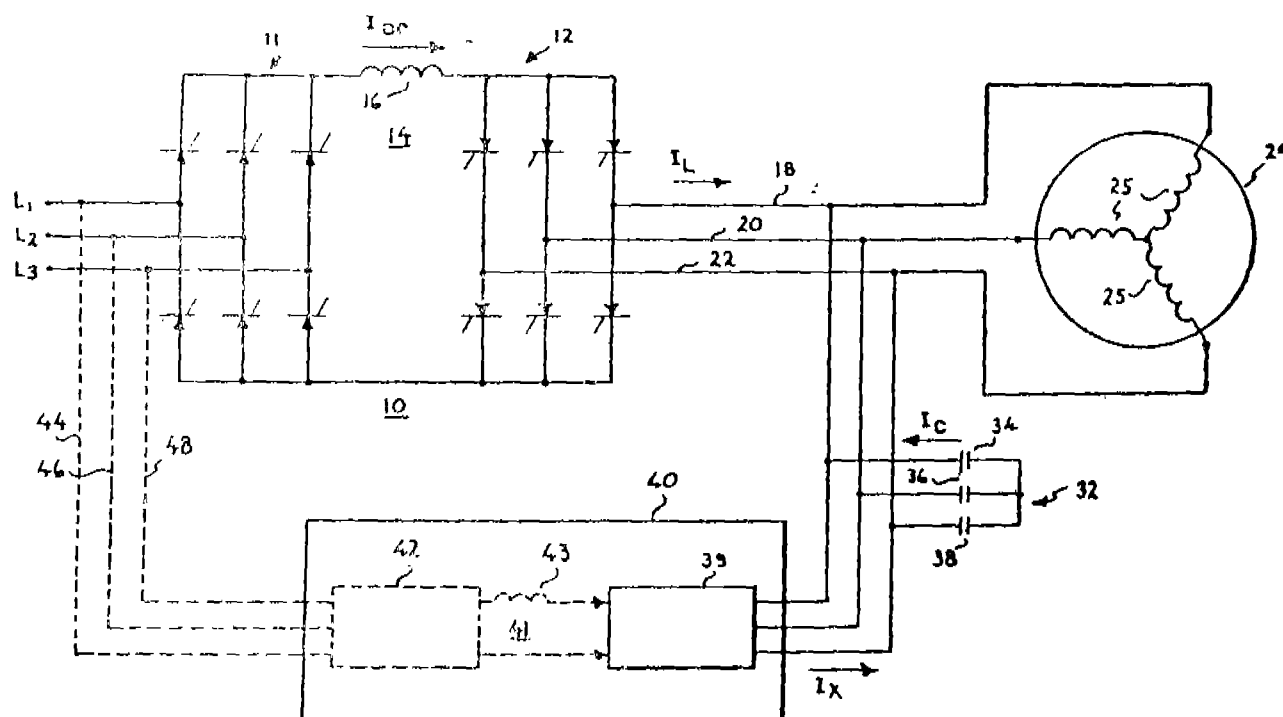
# A SYSTEM FOR CONTROLLING THE OPERATION OF AN ALTERNATING CURRENT INDUCTION MOTOR.

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, U.S.A.

Inventors : (1) LOREN HAINES WALKER, (2) JAMES WILLIAM SEMBER, (3) HERBERT WILLIAM WEISS.

Application No. 134/Cd/86 filed February 21, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.



Compl. specn. 63 pages.

Drgs. 4 sheets

## 23 Claims

A system for controlling the operation of an alternating current induction motor having windings furnished with electrical excitation from a polyphase alternating current power source comprising :

- a controllable load commutated inverter circuit connected between the power source and said induction motor, said load commutated circuit having an output furnishing electrical power and exciting current in a demagnetizing polarity to said motor;
- a capacitor circuit connected to the motor windings and to the output of said load commutated inverter circuit for furnishing leading exciting current to said motor and said load commutated inverter circuit;
- means to generate at least a motor operation command signal;
- means to develop an exciting current correction signal representing a change in motor exciting current required for a desired level of motor operation;
- control means responsive to at least one of said motor operation command signal and said exciting current correction signal for controlling the output of said load commutated inverter circuit in a first mode of operation in the absence of a spillover signal and in a different mode in the presence of said spillover signal; and
- means responsive to said exciting current correction signal to generate said spillover signal when said exciting current correction signal exceeds a predetermined boundary.

CLASS : 67-C.

165024

Int. Cl. : F 15 b 9/00.

**IMPROVEMENT IN OR MODIFICATION OF ELECTRO HYDRAULIC POWER SERVO CONTROL SYSTEMS.**

Applicant : VICKERS, INCORPORATED, OF 1401 CROOKS ROAD, TROY, MICHIGAN 48084, U.S.A.

Inventors : (1) ARTHUR HENRY DEIMEGE, (2) YEHA MOHAMED EL-HUSSEINY EL-IBIARY, (3) MELVIN ARTHUR RODE, (4) LAEL BRENT TAPLIN.

Application No. 135/Cal/86 filed February 24, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**2 Claims**

Improvements in or modification of the electro hydraulic power servo control system claimed in our main Patent Application No. 758/Cal/83, the improvement wherein comprises in combination :

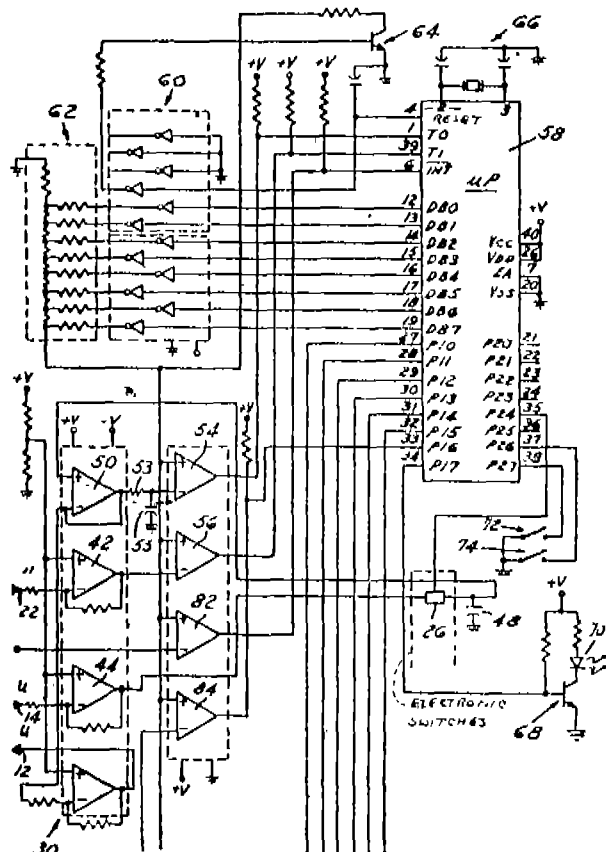
sensor means responsive to said actuator and load for providing first signals as function of X dynamic state variables at said actuator, with X being an integer greater than zero but less than N; and

observer means responsive to said first signals for estimating the remaining N-X of said N dynamic state variable signals at said actuator and load as a function of mathematical model of dynamic behaviour at said actuator and load, said observer means comprising;

means for periodically sampling said error signal and said first signals;

adjustable means for selective adjustment as a function of said dynamic behaviour at said actuator and load, and

programmed digital computation means for selectively and periodically operating said sampling means and responsive to the sampled error and first signals and to said adjustable means for estimating said N-X dynamic state variable signals.



Compl. specn. 17 pages.

Drgs. 5 sheets

CLASS : 42-A<sub>1</sub>.

165025

Int. Cl. : A 24 c 5/50.

**PROCESS FOR COATING A POROUS CYLINDRICAL PRODUCT SUCH AS A FILTER ROD FOR MANUFACTURE OF CIGARETTE FILTERS AND, FILTER RODS THEREBY PREPARED AND PAPER WRAPPED CIGARETTE FILTER RODS COMPRISING SAID FILTER RODS.**

Applicant : CELANESE CORPORATION, LOCATED AT 1211 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK, U.S.A.

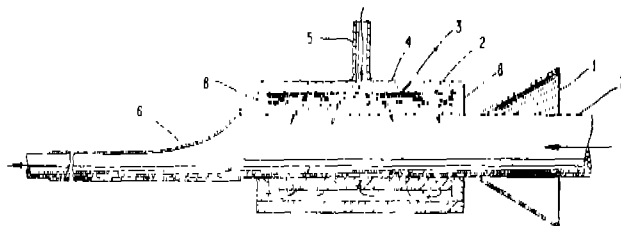
Inventors : (1) RONALD OWEN BRYANT; (2) WILLIAM LAMARMILLEN; (3) ROBERT ERNEST SWANDER

Application No. 209/Cal/86 filed March 17, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**33 Claims**

A process for coating a porous cylindrical product such as filter rod for manufacture of cigarette filters with a known treating liquid, wherein a continuous rod of said product is passed axially through a cylindrical applicator zone comprising a permeable cylindrical wall, and said treating liquid is supplied to a reservoir and manifold zone concentrically enclosing said cylindrical wall, thereby transferring said liquid from said reservoir and manifold zone through said permeable cylindrical wall to contact the surface of said rod.



Compl. specn. 20 pages.

Drgs. 2 sheets

CLASS : 69-I.

165026

Int. Cl. : H 01 h 73/18.

**CIRCUIT BREAKER WITH ARC GASES SHIELDING MEANS FROM LINE TERMINAL.**

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURG, PENNSYLVANIA 15222, U.S.A.

Inventors : (1) KURT ALBERT GRUNERT, (2) ROGER EUGENE WALKER, (3) CHARLES RICHARD PATON, (4) DAVID ANTHONY LEONE.

Application No. 297/Cal/86 filed April 17, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A circuit breaker comprising an insulating housing and, supported therein, at least one pole unit comprising :

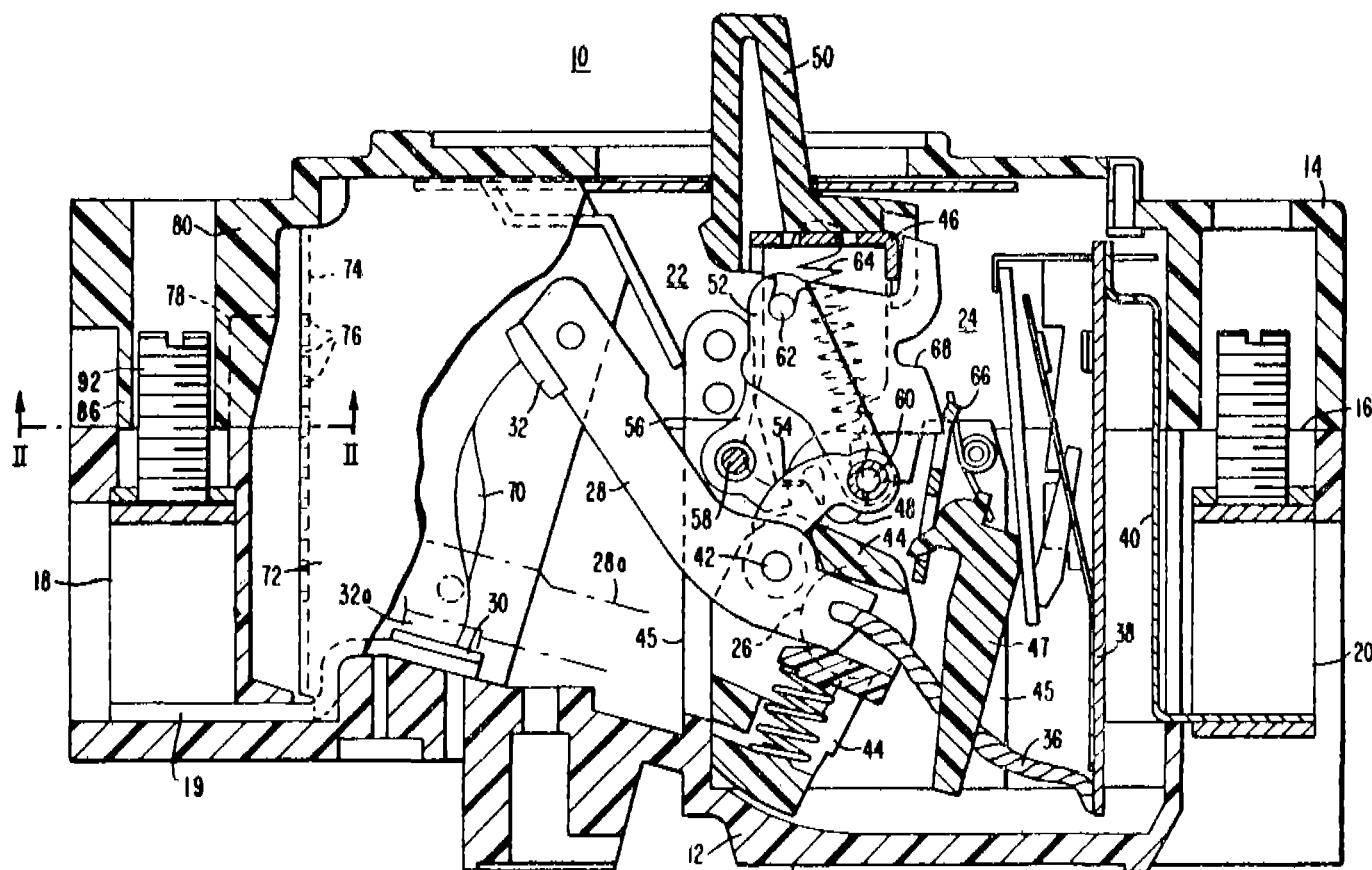
a line terminal;

a load terminal, and a pair of cooperating contacts electrically connected in series between the line and load terminals and disposed in an arc chamber within the housing, and an operating mechanism for opening and closing the contacts;

said housing having an end wall including a wall portion which separates said arc chamber from the line terminal and has an arc-gas vent formed therethrough proximate to a portion of the line terminal;

characterized in that the line terminal (18, 92) has associated therewith a tubular member (86) which surrounds said portion (92) of the line terminal so as to shield it from contact with arc gases issuing from said vent (78);

said tubular member (86) extending from an interior surface of said housing toward the line terminal (18, 92) and telescopically over said portion (92) thereof, and said tubular member (86), together with adjacent surface portions of said end wall (90), defining two gas flow passages (84) which extend from said vent (78) round the tubular member on opposite sides thereof, and to an outlet (88) formed in the end wall and communicating with the ambient.



Compl. specn. 11 pages.

Drgs. 3 sheets

CLASS : 108-C<sub>1</sub> and 9-D

165027

Int. Cl. : C 21 b 15/00; C 22 b 5/00, 34/32.

#### PROCESS FOR THE REDUCTION OF IRON-CONTAINING CHROME ORES.

Applicant : FRIED KRUPP GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF ALTENDORFER STRASSE 103, D-4300 ESSEN 1, WEST GERMANY.

Inventors : (1) DIETRICH RADKE, (2) WILHELM JANSSEN, (3) KLAUS ULRICH.

Application No.362/Cal/86 filed May 13, 1986

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims

Process for the reduction of iron-containing chrome ores in which a raw material mixture of chrome ore, coal and slag producers, in which the ore-coal ratio is from 1 : 0.4 to 1 : 2, is heated in a rotary furnace having a charging end and a reaction product discharge end, in a CO containing

atmosphere at a temperature of between 1100 and 1580°C, comprising :

introducing a charging mixture of chrome ore, coal and slag producers into the charging end of the rotary furnace;

heating the rotating furnace by a burner, which is at the reaction product discharge end, by burner gases, which are in counter flow to the charging mixture, the burner having a central nozzle and at least one outer nozzle surrounding the central nozzle;

introducing oxygen and/or air into the rotating furnace through the central nozzle; and

introducing into the rotary furnace, from the reaction product discharge end, coal suspended in an inert carrier gas, or a gas which has a reducing effect, through the outer nozzle, while maintaining a carbon excess relative to the carbon amounts needed for CO formation, in an amount such that 10 to 90% of the coal in the raw material mixture is introduced into the rotating furnace through the reaction product discharge end, with at least part of the coal introduced through the reaction product discharge end being introduced through the outer nozzle of the burner.

Compl. specn. 23 pages.

Drg. Nil



CLASS : 165028

Int. Cl. : B 28 b 3/00.

**MACHINE FOR THE PRODUCTION OF STABILISED EARTH BUILDING BLOCKS.**

Applicant &amp; Inventor : ANDRE ACCETTA, 18 RUE DE L'ALMA, 4200 SAINT ETIENNE, FRANCE.

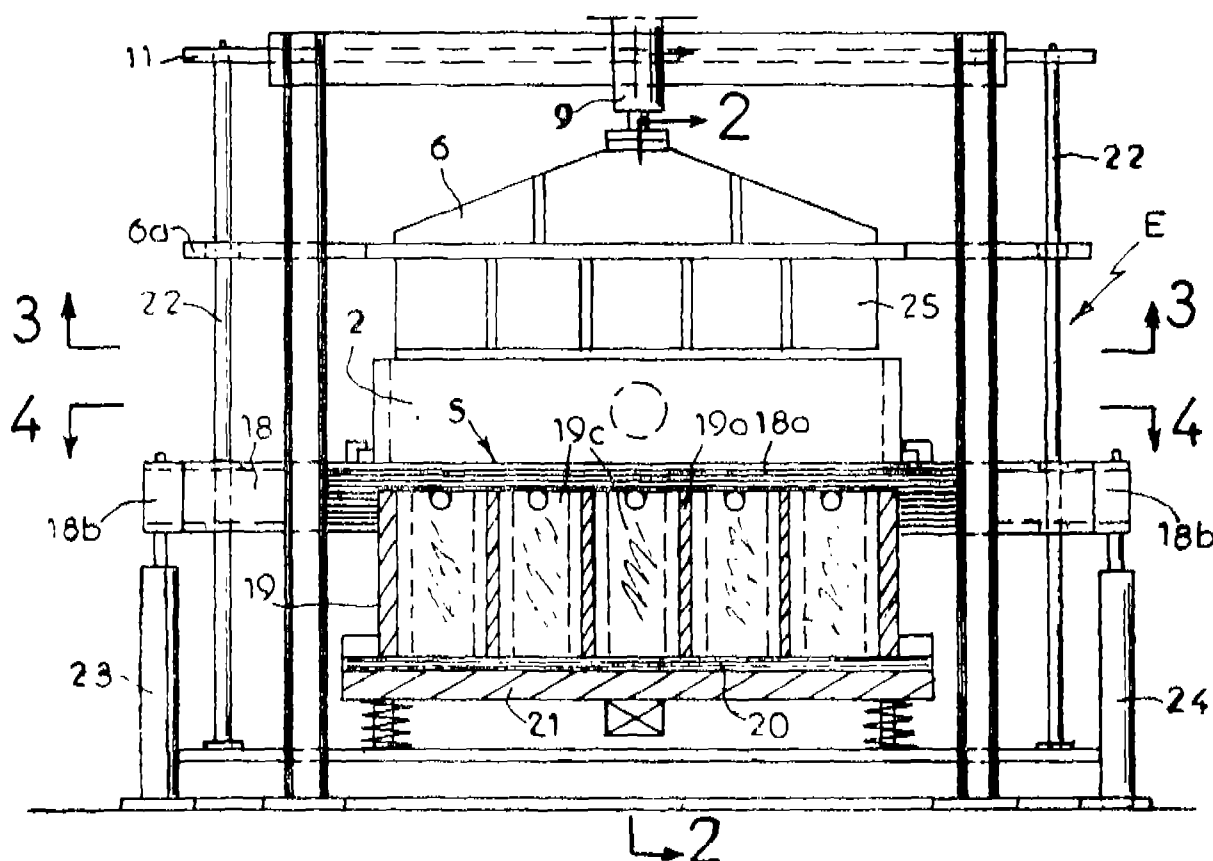
Application No. 722/Cal/86 filed October 01, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A machine for producing stabilised earth building blocks, essentially comprising a supporting frame (1) with an earth

filling container (2) at one end of it which can be moved in the direction of a shaped assembly (E) to form and compact one or more blocks, the assembly (E) being composed of a rammer (6) operated by a cylindrical so that it can be moved vertically heightwise, coaxially to a moulding hopper (5), characterised by the fact that the rammer (6) has profile arrangements (29) overhanging which can match up in the pressing down position, with complementary internal arrangements in a mould (19) shaped to make at least one block with one or more open cavities, this mould (19) being fitted so that it can be adjusted heightwise, inside the hopper (5) which is controlled by facilities which can move it vertically heightwise, coaxially to the compacting assembly, and the bottom of this hopper (5) is made up of an independent removable plate (10) arranged so that it is supported on a vibrating table (21) in a fixed position.



Compl. specn. 9 pages.

Drgs. 4 sheets

CLASS : 165029  
Int. Cl. : A 61 k 37/00.**PROCESS OF PREPARING NOVEL COMPLEXES OF ACTIVE SUBSTANCES FOR ENHANCING ABSORPTION THEREOF ON ORAL ADMINISTRATION..**

Applicant : BIOTECHNOLOGY AUSTRALIA PTY. LTD., OF 28 BARCOO STREET, EAST ROSEVILLE, NEW SOUTH WALES 2069, AUSTRALIA.

Inventors : (1) GREGORY JOHN RUSSELL-JONES, (2) PETER ALIAN HOWE, (3) HENRY JAMES DE ALZPURUA.

Application No. 738/Cal/86 filed October 09, 1986.

Convention dated 10th October, 1985 (No. PH 2838) Australia.

2--187 GI '89

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A process for the production of a complex comprising at least one active substance such as herein described linked to at least one carrier molecule said carrier molecule being vitamin B 12 or an analogue thereof, such as herein described of the carrier to undergo the binding reactions necessary for uptake and transport of vitamin 12 in a vertebrate host and the activity of the active substance are substantially maintained said process comprising providing said at least one active substance and said at least one carrier molecule in reactable form such as herein described and reacting said at least one active substance and said at least one carrier molecule in reactive form to form said complex.

Compl. specn. 20 pages.

Drg. Nil

CLASS : 165030

Int. Cl. : A 61 b 1/00; B 65 d 83/00.

A COMPOSITE BODY FOR SUSTAINEDLY RELEASING VAPOUR OF A VAPORIZABLE ACTIVE SUBSTANCE AND A METHOD FOR THE PREPARATION THEREOF.

Applicant : SHIN-ETSU CHEMICAL CO. LTD., OF 6—1, OTEMACHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) SHIGFHIRO NAGURA, (2) AKIRA YAMAMOTO, (3) KINYA OGAWA.

Application No. 800/Cal/86 filed November 03, 1986.

Divisional of Application No. 524/Cal/84 Anti-dated 23-7-1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A sustainedly vapor-releasing composite body for controlled emission of a vaporizable substance such as perfume and odorizing substances, as herein described for non-drug purposes, which comprises :

- (a) a tubular body made of a plastic resin having an inner diameter in the range from 0.5 to 4 mm., an outer circumferential length in the range from 2 to 20 mm and a length in the range from 50 to 1000 mm;
- b) a wire having a diameter in the range from 0.5 to 1.5 mm and a length substantially equal to the length of the tubular body as the component (a) and made of a metal or an alloy having a Brinell hardness not exceeding 65, the wire being uncoated or coated with a plastic resin and adhesively bonded side-by-side to the tubular body as the component (a); and
- (c) a vaporizable substance capable of exhibiting activity in the atmosphere when present in the form of a vapor and at least partially filling the pore of the tubular body as the component (a).

Compl. specn. 14 pages.

Drg. 1 sheet

CLASS : 165031

Int. Cl. : C 02 F 1/00.

MEANS FOR TREATMENT OF RAW WATER AND SEWAGE TO OBTAIN CONTAMINATION FREE WATER.

Applicant & Inventors : SUDHENDU KUMAR BISWAS OF YZ-23, SAROJINI NAGAR, NEW DELHI-110 023 AND ABDUL FAIZ SYED ABDUL AOWAL OF 1650, GULABI BAGH, NEW DELHI-110 007, INDIA.

Application for Patent No. 42/Del/86 filed on 15th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

Means for the treatment of raw water or sewage to obtain contaminant free water which includes :

- (i) a rapid mixing tank for effectively mixing an already screened and primarily clarified feed of raw water or sewage with a coagulating agent;

(ii) a flocculator for the mix obtained from the mixing tank to form flocs of colloidal particles contained in the feed;

(iii) a secondary clarifier for clarifying and settling down of the heavy particales colloide and flocs formed in the flocculator;

(iv) a further mixing tank to enable mixing of said secondary clarified material sludge with a pH reducing agent such as an inorganic acid to obtain a treated sludge capable of being partly reused as coagulant in said coagulator;

(v) a disposal unit such as a digester for the sludge obtained from the primary clarifier and the said treated sludge and a disinfecting tank for disinfecting the supernatant liquid obtained from the secondary clarifier to give the required contaminant free water.

Compl. specn. 25 pages.

Drg. 1 sheet

Int. Cl. : A 61 M 3/00.

165032

## A DISPOSABLE SYRINGE.

Applicant & Inventor : VIVEK MULI C/o CHANDRA AGRO PVT. LTD., MULI BUILDINGS, ASHOK MARG, LUCKNOW, (U.P.), INDIA. AN INDIAN NATIONAL.

Application for Patent No. 63/Del/86 filed on 22nd January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims

A disposable syringe comprising an elongate housing with an opening at the base extending into a tube, a plunger adapted to slide in said elongate housing characterized in that said plunger comprises a rib shaped member, an end or base plate and an upper can plate, at least two pairs of oppositely disposed ribs provided with said plunger and extending along the complete or part of the length of said plunger.

Compl. specn. 8 pages.

Drg. 1 sheet

Int. Cl. : B 61 D 7/24.

165033

A RAIL ROAD HOPPER CAR HAVING APPARATUS FOR OPENING CLOSING AND LOCKING PAIRS OF HOPPER DOORS.

Applicant : AVONDALE INDUSTRIES INC., A CORPORATION OF THE STATE OF DELAWARE OF 277 PARK AVENUE, NEW YORK, NEW YORK UNITED STATES OF AMERICA.

Inevntor : ROBERT EDWARD MOLLOY.

Application for Patent No. 112/Del/86 filed on 6th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 16 Claims

A railroad hopper car (1) having an apparatus for opening, closing and locking pairs of hopper doors (23, 24, 25, 26) said railroad hopper car (1) said hopper car having a longitudinal center sill (7) and pairs of longitudinally extending first (19, 20) and second (21, 22) chutes, said first and second chutes of a pair being located opposite each other on each side of said center sill to discharge lading to each side of said hopper car, a first (23) for said first (19) chute and a second door (24) for said second chute (20) of a pair, each of said first and second doors being swingable between a downwardly open position and a closed position closing its respective chute, said apparatus for each pair of hopper doors comprising first (31) and second (83) shafts, said first and second shafts being rotatively mounted on the under side of said first and second chutes of said pair respectively, with their end portions (31a, 83a) extending beyond their respective chutes and their axes parallel to said center sill (7), an operating cam (52) being fixed to each end portion of each of said first and second shafts for rotation therewith, a connecting link (70) pivotably connecting said operating cams (52, 91) on corresponding end portions of said first and second shafts, a door actuating link (77, 98) pivotally connecting each of said operating cams (52, 91) to the adjacent one of said first (23) and second (25) hopper doors, a toothed ratchet wheel (40, 88) being fixed to a corresponding end portion of each of said first and second shafts for rotation therewith, a ratchet pawl (44) being pivotally supported on each of said first (19), and second (20) chutes to cooperate with the adjacent one of said ratchet wheels, (40, 90) means connecting said ratchet pawls (44, 88) such that both ratchet pawls are manually movable between a ratchet wheel (40) engaging position and a ratchet wheel (90) releasing position simultaneously from either side of said hopper car, each of said first (31) and second (83) shafts and its respective operating cams (52, 91) being rotatable in a door-open position with an over-center, door-closed position, means actuating at least one of said operating cams on each of said first and second shafts for engagement of either of said operating cams by an appropriate tool to rotate said tool engaged operating cam and its respective one of said first and second shafts to said door-open position and rotating the other of said first and second shafts to said door-open position by means of said connecting links, and means mounted on at least one end portion of each of said first and second shafts for manual rotation of said shafts individually to said over-center, door-closed position.

Compl. specn., 30 pages.

Drgs. 4 sheets

Int. Cl.<sup>4</sup> : G 01 N 11/00.

165034

## APPARATUS FOR HOLDING SENSING PROBE.

Applicant : KENNECOTT MINING CORPORATION, FORMERLY KNOWN AS : KENNECOTT CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., HAVING A PLACE OF BUSINESS AT THE STANDARD OIL COMPANY HEADQUARTERS BUILDING, 200 PUBLIC SQUARE, CLEVELAND, OHIO 44114-2375, UNITED STATES OF AMERICA.

Inventor : ERWIN JOSEPH NUNLIST.

Application for Patent No. 214/Del/86 filed on 7th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

## 8 Claims

An apparatus for holding a sensor probe operable from the exterior of a closed fluid container, to insert and withdraw a sensor probe, respectively, into and out of said closed fluid container wherein :

said sensor probe is cylindrical in section and comprises :

- (i) a sensor tube;
- (ii) a sensor tip mounted to one end of said sensor tube; and
- (iii) conduit means, connected to said sensor tip and extending through said sensor tube, adapted to connect said sensor tip which is capable of interacting with said sensor tip, said apparatus being located remote from said closed fluid container;

said apparatus further comprising:

holder means surrounding and enclosing said sensor probe except for a portion of said sensor tip;

compressible seal means sealing the junction between said said holder means and said portion of said sensor tip which is not surrounded and enclosed by said holder means;

means mounted on said sensor tube;

for continuously exerting linear axial thrust to said sensor tube which results in compression force being applied to said seal means;

means mounted on said holder means sealably through the wall of said closed fluid container and positioning said sensor tip in substantial contact with fluid which is within said closed fluid container;

removably mounting means on said sensor probe within said holder means, said means for removably mounting being entirely operable from the exterior of said closed fluid container; and

causing said compressible seal means to be concurrently removed with the removal of said sensor probe.

Compl. specn. 24 pages

Drgs. 6 sheets

Int. Cl.<sup>1</sup> : C 10 B 57/00, C 10 L 1/00.

165035

PROCESS FOR THE PREPARATION OF DIESEL OIL, AND KEROSENE SUBSTITUTES FROM HEAVY TARY FRACTION OBTAINED BY LOW TEMPERATURE CARBONIZATION OF COAL.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : AZIZ MIRZA, KANDAVILLI VENKATA RAMANAMURTY, RAJAGOPIAN VAIDYESWARAN.

Application for Patent No. 278/Del/86 filed on 25th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 12 Claims

A process for the production of diesel oil and kerosene substitute from the heavy tar boiling upto 300°C obtained from low temperature carbonisation of coal which comprises treating the heavy tar with a solvent such as herein described to remove asphaltenes, hydrocracking using a bed of catalysts such as herein described, the deasphalted material after removing the solvent, distilling the hydrocracked product after removing the catalyst to obtain different cuts boiling in the range of 150°—370°C, and solvent refining the cuts boiling in the range of 150°—250°C and 200 to 370°C, to obtain kerosene substitute and diesel oil respectively.

Compl. specn. 17 pages.

Int. Cl.<sup>4</sup> : B 65 B 29/10, B 65 D 23/04, 51/22. 165036**A BOTTLE FOR STORAGE AND DISPENSING OF PHARMACEUTICALS.**

Applicant & Inventor : VIVEK MULL, CHANDRA AGRO PVT. LTD., MULL BUILDINGS, ASHOK MARG, LUCKNOW, UTTAR PRADESH, INDIA, AN INDIAN NATIONAL.

Application for Patent No. 289/Del/86 filed on 27th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**4 Claims**

A bottle for storage and dispensing of a pharmaceutical comprising a main chamber for storage of a liquid therein, said chamber having an opening at the upper end closed by a stopper a secondary chamber extending downwardly from said stopper into the main chamber said secondary chamber having a base for supporting powder therein, a hollow plunger having sharp edge extending within said secondary chamber such that when plunger is pushed it causes a rupture of said base and allows the powder material to fall into the main chamber.

Compl. specn. 6 pages

Drg. 1 sheet

Int. Cl.<sup>4</sup> : F 03 G 7/00, F 03 B 17/02. 165037**A SELF OSCILLATING DEVICE FOR THE CONVERSION OF THE ENERGY IN A LIQUID TO SHAFT ENERGY.**

Applicant : HYDRO ENERGY ASSOCIATES LIMITED, A BRITISH COMPANY OF 17 ROYAL CRESCENT, CHELTENHAM, GLOUCESTERSHIRE, G150 3DA, ENGLAND.

Inventor : NORMAN WEST BELLAMY.

Application for Patent No. 333/Del/86 filed on 14th April, 1986.

Convention date April 16, 1985/8509671 & June, 16, 1985/8516148 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**11 Claims**

A self oscillating device for the conversion of energy in a liquid to shaft energy which comprises a conduit means along which said liquid flows, a flexible membrane means located in said conduit means and defining in said conduit means two spaced apart cavities at least one of said cavities containing a gaseous fluid, which permit the supply and exhausting of said fluid to and from under the membrane means, a passage means connecting said cavities, and a gaseous medium turbine means located in said passage means, the self oscillation being established in that the liquid flow is cyclically blocked or limited and released by the inflation of the membrane means in the conduit means at one of said cavities and at the same time the deflation of the membrane means in the conduit at the other cavity and vice versa.

Compl. specn. 30 pages.

Drgs. 7 sheets

Int. Cl.<sup>4</sup> : F 16 L 15/02. 165038**"PIPE COUPLING".**

Applicant & Inventor : ANDRZEJ TOMASZ IWANICKI, A SWEDISH CITIZEN OF OSTRANDSVAGEN 72, S-122 43 ENSKEDE, SWEDEN.

Application for Patent No. 1060/Del/86 filed on 3rd December, 1986.

Divisional to Application No. 124/Del/84 filed on 9th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**2 Claims**

Pipe coupling including a connection disposed for receiving with a sliding fit a coupling member (70) which, on forced axial displacement into or in over the connection, intended to act on clamping and sealing means axially compressible by the coupling member (70) or connection in which it is inserted, for translating the compression forces generated by the axial compression forces into radial compression forces against the connection or against a pipe or coupling piece inserted in the coupling, characterised in that the coupling member has axially projecting, resilient gripping means (71) with radially inwardly projecting hooks, intended for engaging against a collar (72) disposed on the peripheral surface of the connection, the collar having a radially projecting edge facing away from the gripping means, the coupling member comprising two parts (66, 67) in threaded engagement, and with the aid of locking flanges formed in said parts retain between them the gripping means as well as the clamping and sealing means, said means, on screwing up the parts of the coupling member, being pressed into engagement against the collar edge, as well as against the peripheral surface of the connection or the pipe or the coupling piece.

Compl. specn. 19 pages.

Drgs. 6 sheets

Int. Cl.<sup>4</sup> : F 16 L 15/02. 165039**"PIPE COUPLING".**

Applicant & Inventor : ANDRZEJ TOMASZ IWANICKI, A SWEDISH CITIZEN, OF OSTRANDSVAGEN 72, S-112 43 ENSKEDE, SWEDEN.

Application for Patent No. 1061/Del/86 filed on 3rd December, 1986.

Divided to Application No. 124/Del/84 filed on 9th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005

**2 Claims**

Pipe coupling wherein the connection is formed as a coupling housing (88, 89, 90) having threads for nuts which, on being screwed into or over the housing which are to act on clamping and sealing means for translating the compression forces generated by the axial displacement into radial compression forces against pipes or coupling pieces inserted in the coupling, each connection and/or associated nut is threaded on its interior as well as its exterior peripheral surface, the external (142) and internal (143) threads on each connection and/or nut mutually axially displaced half a pitch.

Compl. specn. 19 pages

Drgs. 6 sheets

Int. Cl.<sup>4</sup> : B 04 C 1/00.

165040

**"A CYCLONE SEPARATOR FOR CLEANSING OF A GASEOUS STREAM".**

Applicant : NATIONAL COUNCIL FOR CEMENT & BUILDING MATERIALS, OF M-10 SOUTH EXTENSION PART-II, RING ROAD, NEW DELHI-110 049, INDIA, AN INDIAN INSTITUTE.

Inventor : DHIBHOBDA VANKETA RAMANNARAO.

Application for Patent No. 1076/Del/86 filed on 8th December, 1966. Divisional to Application No. 72/Del/84 filed on 24th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**3 Claims**

A cyclone separator comprising a housing having an inlet to provide a tangential entry of the gaseous stream, said housing extending downwardly into a conical member, an outlet provided at the base of said conical member for the discharge of collected particulates, a vortex finder provided at the upper end of said housing and extending partly therein for discharge of the clean gas characterized in that at least one secondary inlet is provided inclined downwardly towards the particulate outlet in said conical shaped member for introduction of secondary compressed air.

Compl. specn. 8 pages

Drg. 1 sheet

CLASS :

165041

Int. Cl. : F 01 d 25/00.

**MOISTURE PRE-SEPARATOR ARRANGEMENTS.**

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURG, PENNSYLVANIA 15222, U.S.A.

Inventor : GEROGE JOSEPH SILVESTRI, JR.

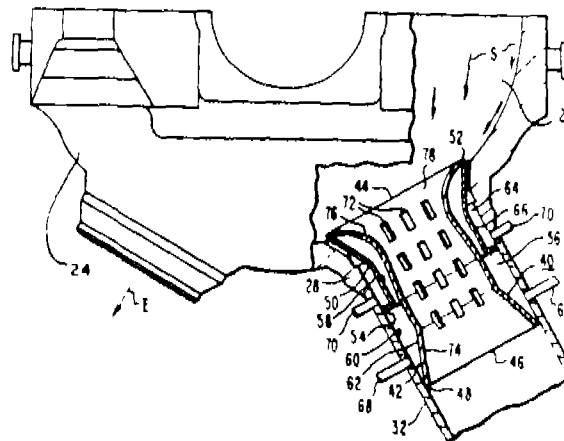
Application No. 38/Cal/87 filed January 12, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**5 Claims**

A moisture pre-separator arrangement for an exhaust portion of a steam turbine, said exhaust portion including an exhaust hood, said exhaust hood (24) enclosing an exhaust nozzle (30) and an exhaust pipe (32) affixed to said nozzle (30), characterized in that a first inner hollow member (42) having an inlet end (44) extending into said exhaust hood chamber (26) and an outlet end (46) having a final diameter equal to the inside diameter of said pipe (32), is affixed to said pipe (32) at the outlet end (46) thereof to form a jointure in sealing relationship with said pipe (32), a second hollow inner member (50) is disposed concentrically around said first hollow inner member (42), said second hollow inner member (50) being affixed at one end to said inlet end (44) of said first hollow inner member (42), and at the other end to said pipe (32), such that a first channel (65) is defined between the second hollow member (42), and a second channel (64) is formed between the second hollow member (50) and the wall of said nozzle (30), that first drain means (68) are provided in fluid communication with said first channel (56) for draining said first channel (56), and second drain means (70) are provided in fluid communication with said second channel (64) for draining said second channel (64), and that said first hollow inner member has a plurality of apertures (72) therethrough in predetermined positions proximate said inlet end (44), whereby a

substantial portion of the water flowing on the walls of said exhaust hood is captured by said second channel (64) and drained by said second drain means (70), said first inner hollow member (42) constricting the flow of steam with entrained moisture thereby causing a substantial portion of the entrained water to deposit on the inner surface of said first hollow member (62) and to pass through said apertures (72) into the first channel (64) for draining by the first drain means (68).



Compl. specn.. 12 pages.

Drgs. 3 sheets

CLASS :

165042

Int. Cl. : F 24 b 1/00.

**BIOMASS STOVE.**

Applicant & Inventors : (1) FRED W. HOTTEN ROTH 1740 INTERLACHEN STREET, SEAL BEACH, CALIFORNIA, U.S.A. (2) FRED W. HOTTENROTH, III, 411 SOUTH COUNTRY HILL DRIVE, ANAHEIM, CALIFORNIA, U. S. A.

Application No. 70/Cal/87 filed January 22, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**18 Claims**

A biomass stove which comprises :

an outer chamber having a hollow interior, said outer chamber having bottom wall and an outer side wall connecting to said bottom wall, said outer chamber having an open top opening into said outer chamber hollow interior;

air inlet means for introducing air into said interior of said outer chamber, said air inlet means located in at least one of said outer chamber bottom wall and said outer chamber side wall;

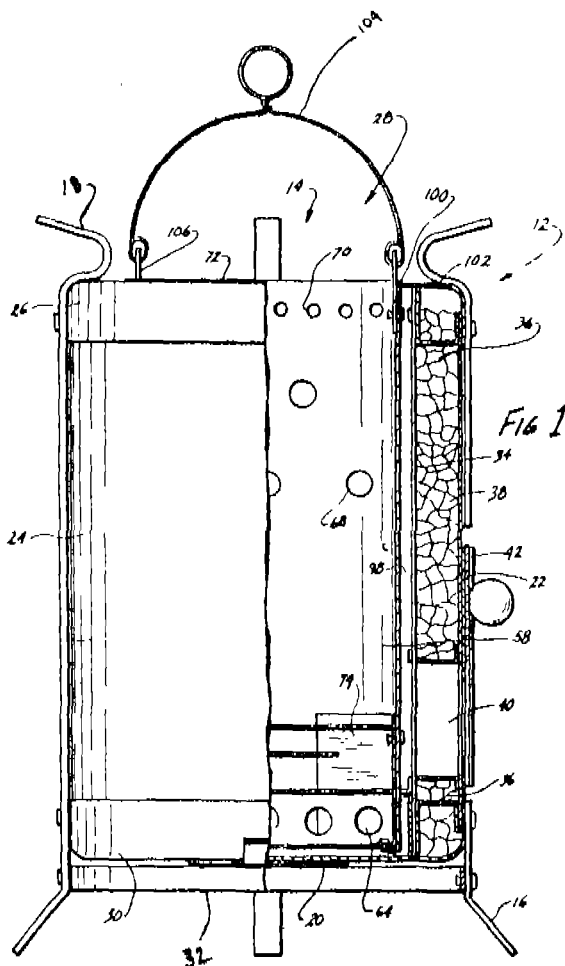
a fuel basket having a hollow interior for containing fuel, said fuel basket including a continuous side wall surrounding the hollow interior, said fuel basket sized and shaped so as to be at least partially temporarily locatable said outer chamber inside the hollow interior of;

a grate located in said hollow interior of said fuel basket and position within said hollow interior of said fuel basket spaced upwardly from said bottom edge of said fuel basket side wall;

a reflecting means for reflecting heat, said reflecting means located in said fuel basket below said grate;

fuel basket air inlet means for introducing air into said fuel basket and it is located below said grate means;

and further that the said stove optionally includes a housing wall and a support housing which may contain at least two individual stoves of the above description.



Compl. specn. 21 pages.

Drgs. 2 sheets

CLASS : 85-J.

165043

Int. Cl. : F 27 d 1/00.

METHOD FOR TORCH GUNITING A METALLURGICAL UNIT.

Applicant : VSESOJUZYNY GOSUDARSTVENNY INSTITUT NAUCHNO-ISSLEDOVATELSKIKH I PROEKTNYKH RABOT OGNEUPORNO I PROMYSHLENNOSTI, OF LENINGRAD, NABEREZHNYAYA MAKAROVA, 2, USSR.

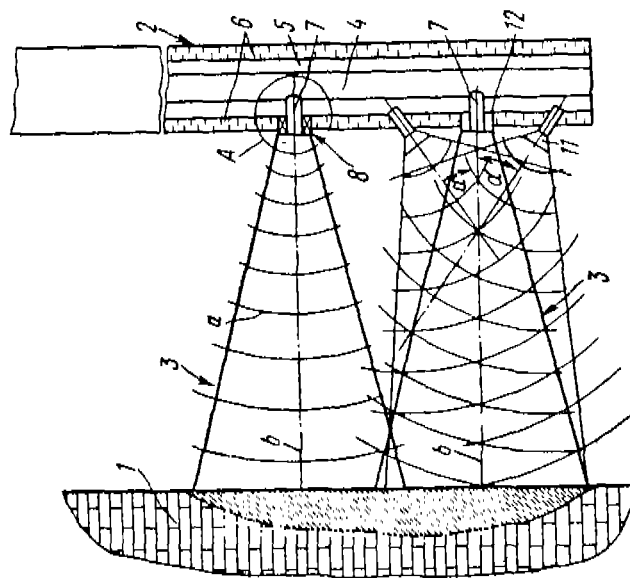
Inventors : (1) MIKHAIL VASILIEVICH MALAKHOV, (2) ALBERT NIKOLAEVICH IVODITOV, (3) JURY IVANOVICH ZHAVORONKOV, (4) VIKTOR ALBERTOVICH BREIDO, (5) IZRAIL ABRAMOVICH JUZEFOVSKY, (6) IGOR PAVLOVICH TSIBIN, (7) ALEXANDR ALEXANDROVICH SHERSHNEV, (8) OLEG NIKOLAEVICH CHERMERIS, (9) NINA PAVLOVNA CHERNOVA, (10) VYACHESLAV FEDOROVICH BADAKH.

Application No. 100/Cal/87 filed February 03, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A method for torch guniting of a metallurgical unit, wherein a guniting torch formed by a guniting mix, fuel and oxygen, is directed onto the refractory lining of the unit involved, while the guniting torch is simultaneously exposed to the effect of a wave energy field, said field being established by virtue of sonic vibrations which are maximally concentrated at the guniting torch.



Compl. specn. 9 pages.

Drgs. 2 sheets

CLASS :

165044

Int. Cl. : B 65 g 53/00.

APPARATUS FOR CONTROLLING THE FLOW OF SOLID GRANULAR MATERIAL.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, U.S.A.

Inventor : BARD CLARK TEIGEN.

CLASS :

165045

Application No. 135/Cal/87 filed February 19, 1987.

Int. Cl. : D 01 g 15/00.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

An apparatus for controlling the flow of solid granular material from a low pressure region at an upper elevation to a high pressure region at a lower elevation and in particular for effecting flow of particulate material from a fluidized bed to a lower elevation comprising :

at least one vertical supply pipe connected to receive material from said low pressure region by gravity feed;

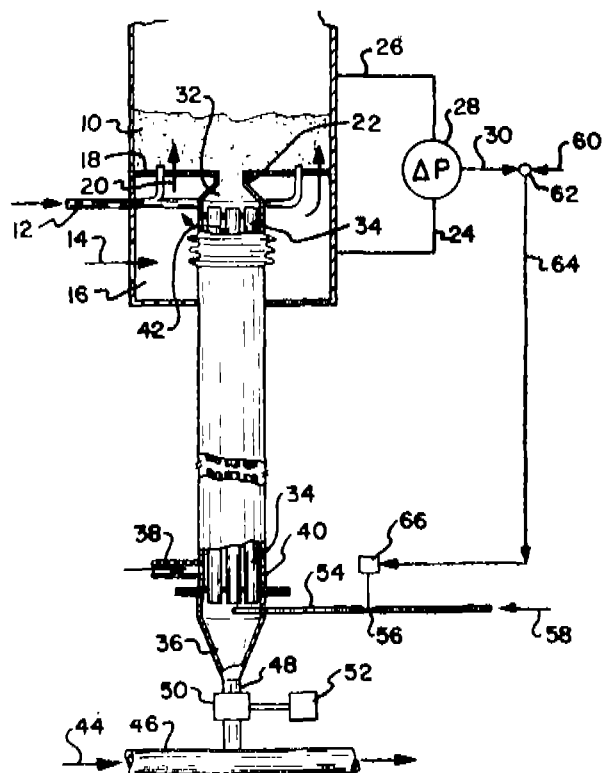
a substantially conical transition section for receiving material from said supply pipe;

a substantially vertical feed pipe for receiving material from the bottom of said transition section, and for conveying it downwardly into said high pressure region;

said supply pipe, transition section, and feed pipe sealingly connected in series flow relationship;

an air supply tube for introducing air directly in to said transition section; and

means for controlling an air supply to said air supply tube.



Compl. specn. 8 pages.

Drgs. 2 sheets

## A FIBRE PROCESSING MACHINE.

Applicant : TRUTZSCHLER GMBH & CO. KG., OF  
DUVENSTR. 82—92, D-4050, MONCHENGLADBACH 3,  
WEST GERMANY.

Inventor : FERDINAND IEIFELD.

Application No. 178/Cal/87 filed March 06, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

In a fiber processing machine including a rotary roller provided with a clothing and having a periphery; and a separating knife cooperating with the roller for separating waste from the fiber material entrained by the roller; said knife having a knife edge situated at an adjustable distance from the periphery of the roller; the improvement comprising a separating knife assembly including said separating knife; an adjusting device including means for varying a position of said separating knife relative to said roller and means for immobilizing said separating knife in a desired adjusted position; and drive means for operating said adjusting device.

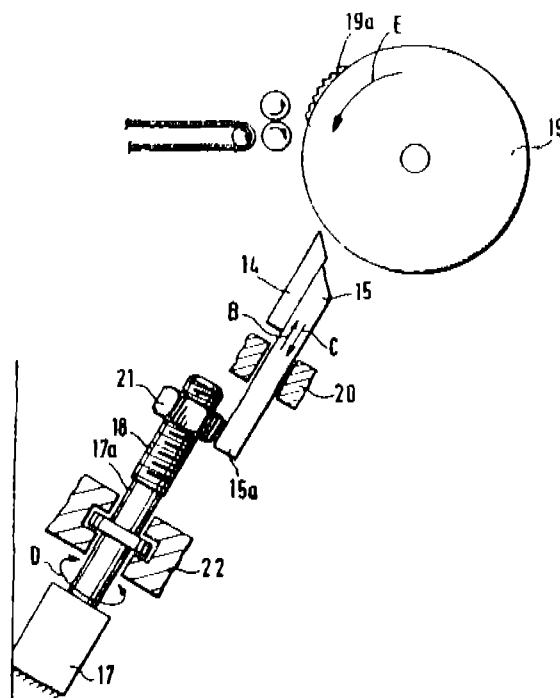


Fig. 2

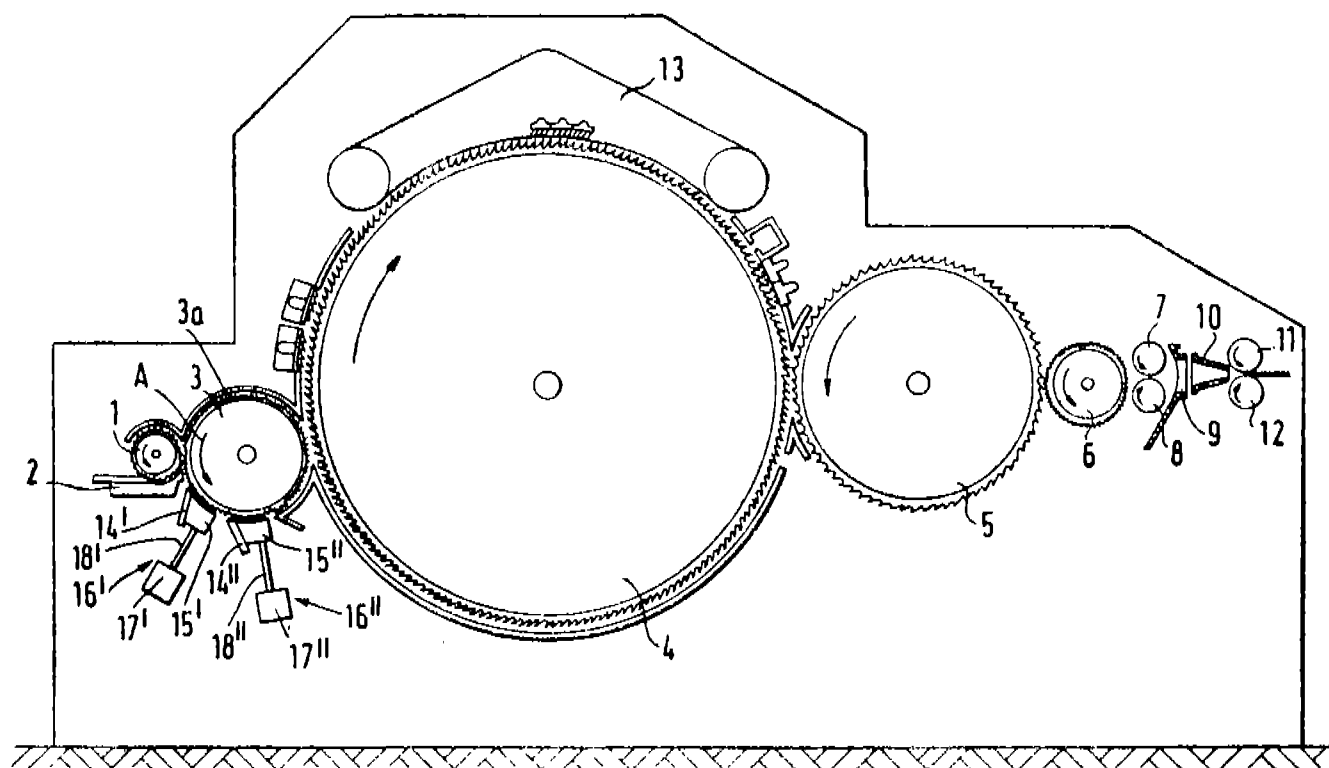


Fig. 2

Compl. specn. 14 pages

Drg. 5 sheets

CLASS : 70-B.

165046

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

Int. Cl. : C 25 d 1/00; C 25 c 7/00.

## 6 Claims

## ELECTRODE ASSEMBLY FOR GAS-PRODUCING ELECTROLYZER COMPRISING VERTICAL PLATE ELECTRODES.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, WEST GERMANY.

Inventors : KARL LOHRBERG.

Application No. 228/Cal/87 filed March 24, 1987.

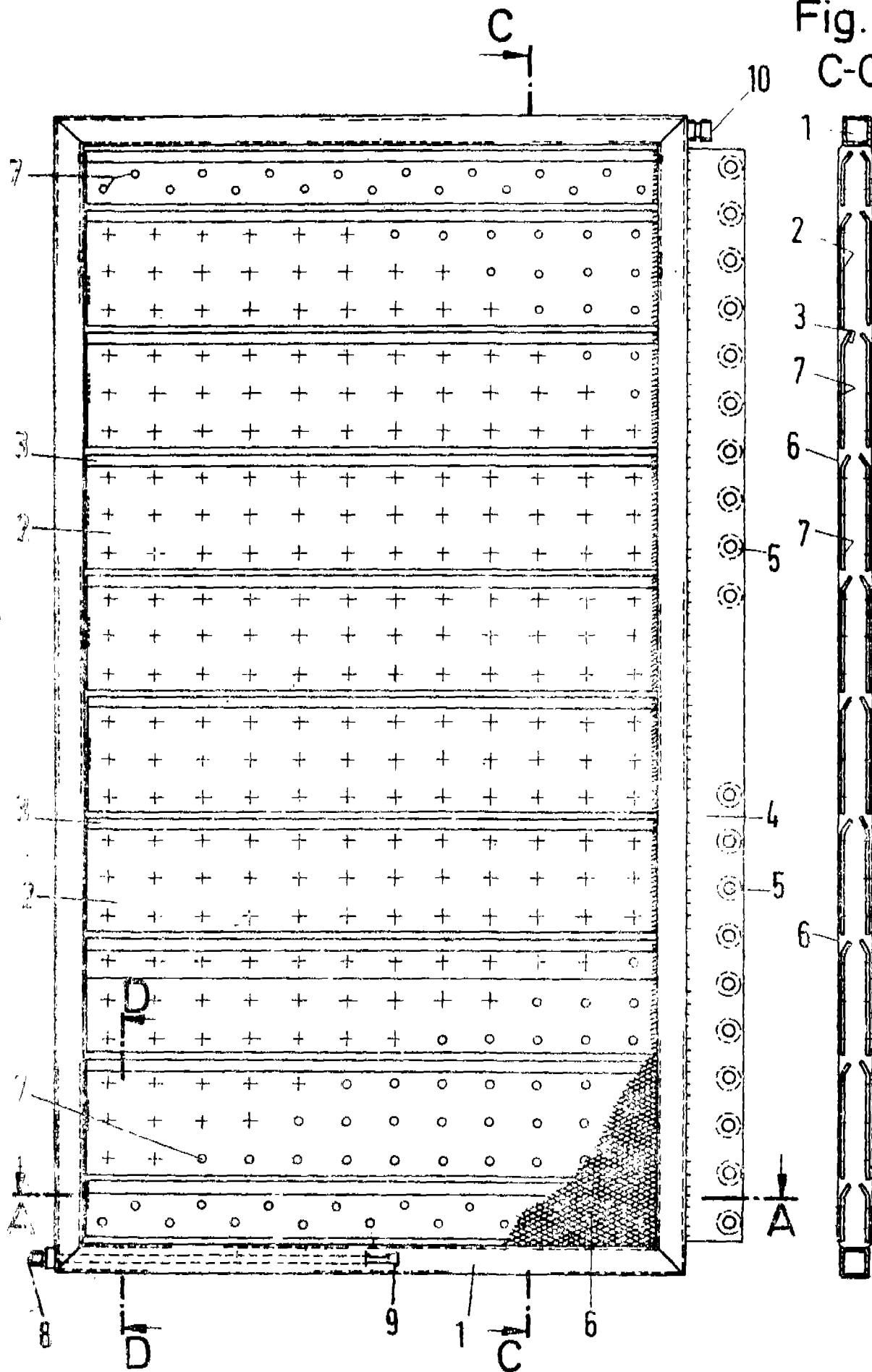
An electrode assembly for gas-forming electrolyzers, particularly for monopolar membrane electrolyzers comprising vertical plate electrodes and opposite electrodes 1 and a membrane between the plate electrode and the opposite electrode, characterized in that the plate electrodes are provided on that surface which faces the membrane with ante-electrodes, which are electrically conducting surface structures, which are electrically conductively connected to the plate electrodes and extend in planes which are parallel to the plate electrodes.

Compl. specn. 15 pages

Drg. 2 sheets



Fig. 2  
C-C



CLASS :

165047

4 Claims

Int. Cl. : H 04 r 17/00.

AN ARRANGEMENT FOR IMPROVING THE FREQUENCY RESPONSE FOR ELECTRO-ACOUSTIC TRANSDUCERS.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNICH 2, WEST GERMANY.

Inventors : (1) ERNEST PAYER, (2) HANS SCHIERL.

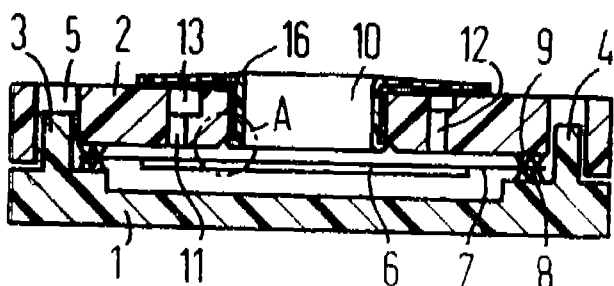
Application No. 587/Cal/87 filed July 29, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An arrangement for improving the frequency response in electro-acoustic transducers in telephone technology, comprising :

a transducer plate which is provided with a piezoelectric coating, and is clamped in bearing components between a lower housing component and an upper housing component and has a chamber in front of the transducer plate, where the upper housing component is formed with a central sound transmitting opening communicating with the chamber, and wherein the upper housing component is formed with two further openings which provide communication between the chamber and at least one annular channel formed in the face of the upper housing component remote from the transducer, and that the openings and the channel are closed by a covering plate which is provided with an opening coincident with the sound transmitting opening.



Compl. specn. 8 pages.

Drg. 1 sheet

CLASS : 146-C.

165048

Int. Cl. : G 01 n 29/02; G 01 l 9/08.

A MOISTURE MEASURING DEVICE.

Applicant : THE BABCOCK & WILCOX COMPANY, RESIDING AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventors : (1) JOHN HARRIS FLORA, (2) JAMES EVANS HENDERSON.

Application No. 604/Cal/87 filed August 03, 1987.

Divisional of Application No. 1045/Cal/83 Anti-dated to 29th August, 1983.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

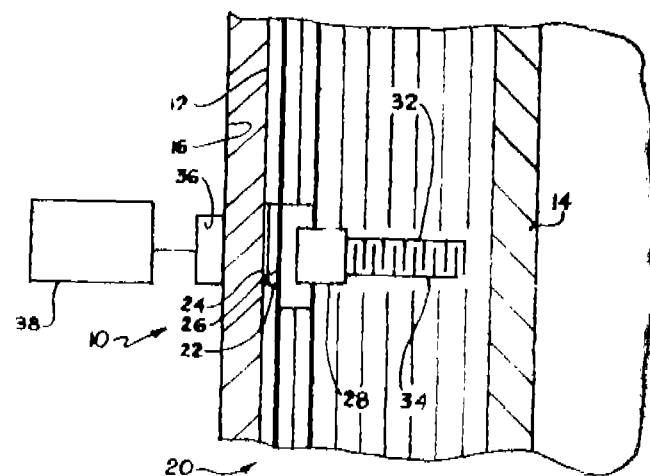
A moisture-measuring device for measuring moisture of an ambient on one side of a solid wall member comprising :

a piezoelectric crystal sonically coupled to the wall member on a surface thereof facing the one side;

moisture sensitive impedance means exposed to the ambient; and

a network connected across said moisture sensitive impedance means and to said piezoelectric crystal to provide a response indicative of the impedance of said moisture sensitive impedance means upon excitation of the crystal;

whereby exposure of said moisture sensitive impedance means to a moisture variation results in a change in the response obtained upon excitation of said crystal from an opposite side of the wall.



Compl. specn. 13 pages.

Drg. 1 sheet

CLASS : 95-H.

165049

Int. Cl. : B 21 c 31/4.

APPARATUS FOR IMPRINTING OF EDGES OF GROOVES IN VALVE CORES FOR ROTARY VALVES FOR USE IN POWER STEERING GEAR.

Applicant : ARTHUR ERNEST BISHOP, OF 19 BUFFALO ROAD, GLADESVILLE, NEW SOUTH WALES, AUSTRALIA.

Inventors : (1) KLAUS JUERGEN ROESKE, (2) ARTHUR ERNEST BISHOP.

Application No. 903/Cal/87 filed November 18, 1987.

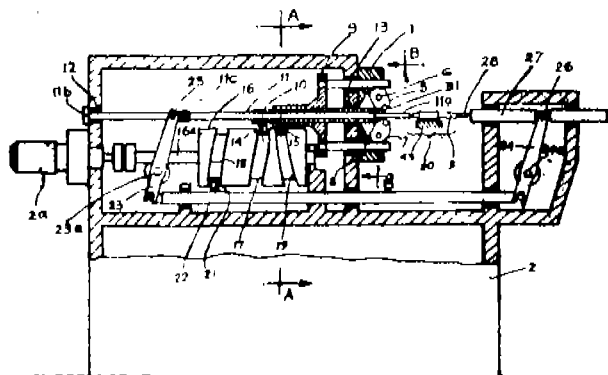
Convention dated 4th October, 1984 (No. PG 7491) Australia.

Divisional of Application No. 698/Cal/85, Anti-dated to 3rd October, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

Apparatus for the imprinting of edges of grooves performed in a valve core for a rotary valve for use in a power steering gear comprising a die head incorporating a circular cluster of radially disposed rolling die holders each carrying at an inner end an arcuate imprinting die mounted for partial rotation in the die head and having an outer periphery on which is formed a sector of gear teeth, a plurality of racks supported for reciprocating motion in engagement with said sectors of gear teeth, a work spindle extending with along central axis of said cluster, the work spindle having at one end valve core holding means, means for reciprocating said racks simultaneously, means for reciprocating said work spindle and means for coordinating said reciprocating motions according to a predetermined relationship.



Compl. specn. 15 pages.

Drgs. 7 sheets

CLASS :

165050

Int. Cl. : C 07 c 50/00.

#### PROCESS FOR THE PRODUCTION OF HIGH-PURITY TETRACHLORO-1, 4-BENZOQUINONE.

Applicant : HOECHST AKTIENGESellschaft, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) OTTO ARNDT, (2) THEODOR PAPENFUHS.

Application No. 42/Cal. 88 filed January 18, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A process for the production of high-purity tetrachloro-1, 4-benzoquinone (free from tetrachlorohydroquinone) by the action of chlorine and hydrochloric acid on hydroquinone, which comprises reacting 1.9 to 2.1 times the molar quantity of gaseous chlorine at temperatures from 5 to 15°C with 1 mol of hydroquinone (molecular weight 110.1) in 6 to 7 times the molar quantity of 30 to 37% hydrochloric acid, then diluting the resulting suspension, essentially containing 2, 5-dichlorohydroquinone, with 2 to 3 parts of water, relative to hydroquinone employed, and initially warming to a temperature from 20 to 30°C, subsequently introducing 1.9 to 2.1 times the molar quantity of chlorine gas in an air atmosphere while raising the temperature to 90 to 100°C with simultaneous dilution with 3.5 to 4.5 parts of water, relative to hydroquinone employed, and finally introducing 1 to 2 times the molar quantity of gaseous chlorine, relative to hydroquinone employed, at temperatures from 100 to 115°C to obtain the said tetrachlorine 1, 4-benzoquinone.

Compl. specn. 17 pages.

Drg. Nil

#### CANCELLATION OF THE REGISTRATION OF DESIGN BY HIGH COURT UNDER SECTION 51A OF THE DESIGNS ACT, 1911

Registration of Design No. 151163 has been cancelled by order dated 13th April, 1989 of the Calcutta High Court in the matter No. — of 1989 with cost to the petitioner.

#### REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 160580. Wajidsons Exports, an Indian Partnership Firm of Prince Road, Wajid Nagar, P. O. Box No. 79, Moradabad-244001, U.P., India. "Containers". 20th December, 1988.

Class 1. Nos. 160617 & 160619. Sunbeam Overseas Limited (a Company incorporated under the Indian Companies Act), whose address is Post Box No. 4431, B-211, Chitranjan Park, New Delhi-110019, India. "Beside Cabinet Cum Overhead Table". 4th January, 1989.

Class 1. No. 160620. Sunbeam Overseas Limited (a Company incorporated under the Indian Companies Act), whose address is Post Box No. 4431, B-211, Chitranjan Park, New Delhi-110019, India. "Overhead Table". 4th January, 1989.

Class 1. No. 160702. Ashok Manufacturing Company Private Limited. An Indian Company, 1-Canal Road, Vijay Nagar, Delhi-110009, India. "Waste Disposal Unit". 2nd February, 1989.

Class 1. No. 160706. Messrs Rajiv Engineering Works. Registered Partnership Firm. "Tiffin Box". 6th February, 1989.

Class 1. No. 160707. Zeba Exports, 32/F/18, Khokarn Street, Moradabad-244001, U.P. India, an Indian Partnership concern. "Coffee Pot". 7th February, 1989.

Class 1. No. 160786. Kizhakkannathu Thomas Thomas, an Indian national, sole proprietor of Thomson's Industries, of Kidangoor 686 572, Kottayam District, Kerala State, India. "a Mosquito Detercowl". 6th March, 1989.

Class 1. No. 160835. M. H. KORANNE, Indian, trading as SAKAR INDUSTRIES, C-41, Industrial Estate, Santhnagar, Hyderabad, Andhra Pradesh State, India. "Mould for making blocks". 23rd March, 1989.

Class 1. No. 160836. P. S. KALIDAS, Indian, trading as KALA ENGINEERING WORKS, 12-10-590/36, Warasiguda, Secunderabad-500 361, Andhra Pradesh, India. "Pneumatic Button Bit Grinder". 23rd March, 1989.

Class 1. No. 160839. P. S. KALIDAS, Indian, trading as KALA ENGINEERING WORKS, 12-10-590/36, Warasiguda, Secunderabad-500 361, Andhra Pradesh State, India. "Pneumatic Bench Grinder". 23rd March, 1989.

Class 1. No. 159998. Khaitan (India) Limited, an Indian Company of 46C, J.L. Nehru Road, Calcutta-700 071, West Bengal, India. "Stand for Electric Fan". 28th July, 1988.

- Class 3. No. 160576. MODI RUBBER LIMITED, an Indian company of Modinagar, Uttar Pradesh, India. a "Tyre for a Vehicle wheel". 19th December, 1988.
- Class 3. No. 592. Brenco Straws Pvt Ltd., C-256, Phase II, Mayapuri, New Delhi-110064, India, Indian Company. "Drinking Straw". 26th December, 1988.
- Class 3. No. 160593. Brenco Straws Pvt. Ltd., C-256, Phase II, Mayapuri, New Delhi-110064, India, Indian Company. "Spoon-Cum-Drinking Straw". 26th December, 1988.
- Class 3. No. 160611. Revlon Inc., a Corporation of the State of Delaware, 767 Fifth Avenue, New York, N. Y. United States of America. "Bottle". 30th December, 1988.
- Class 3. No. 160616. Sunbeam Overseas Limited, (a Company incorporated under the Indian Companies Act), whose address is Post Box No. 4431, B-211, Chitranjan Park, New Delhi-110019, India. 4th January, 1989.
- Class 3. No. 160618. Sunbeam Overseas Limited, (a Company incorporated under the Indian Companies Act), whose address is Post Box No. 4431, B-211, Chitranjan Park, New Delhi-110019, India. "Beside Cabinet Cum Overbed Table". 4th January, 1989.
- Class 3. No. 160690. Ramesh U. Bilgekar, Indian National, residing at 51/2420, M. H. B. Colony, Gandhi Nagar, Bandra (East), Bombay-400 051, Maharashtra, India. "Wire Holding Clip (Double)". 27th January, 1989.
- Class 3. No. 160698. Snappi Holdings (Proprietary) Limited, a legal body organised and existing under the laws of the Republic of South Africa of 410 Standard Plaza, 440 Hilda Street, Hatfield, Pretoria, Transvaal Province, Republic of South Africa. "a Diaper Fastener". 1st February, 1989.
- Class 3. No. 160728. Shewaram G. Bachwani, An Indian, trading as Shewaram & Sons, 11, Sutar Chawl, 1st Floor, Bombay-400 002, Maharashtra, India. "Strainer". 17th February, 1989.
- Class 3. No. 160769. Ashish Enterprises, Irani Bldg., Ground floor, 303, Cawasji Street, Bombay-2, State of Maharashtra, India, an Indian Partnership firm. "Magnetic Pin-up Box". 1st March, 1989.
- Class 3. Nos. 160771 & 160773. Sultan Plastics, 4852, Bara Hindu Rao, Delhi-110006, India, is a Proprietorship concern. "Toy Gun". 1st March, 1989.
- Class 3. No. 160804. Balsara Hygiene Products Ltd., an Indian Company, at 43, N. Master Road, Fort, Bombay-400 023, Maharashtra, India. "Bottle". 13th March, 1989.
- Class 3. No. 160806. Harshad Sardesai, Indian National, of 2A Sushil Apartments, Nal Stop, Karve Road, District-Pune, Maharashtra, State, India. "Water Separator". 13th March, 1989.
- Class 3. 160759. Ashoke Enamel & Glass Works (P) Ltd, 34A Metcalfe Street, Calcutta-700 013, West Bengal, India an Indian Company. "Bottle". 24th February, 1989.
- Class 5. Nos. 160538 & 160539 Polymer Papers Limited, Sunlight Building, 1/28 Asaf Ali Road, New Delhi-110 002, India, an Indian Company. "Pleated Filter Paper". 13th December, 1988.

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